

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A method to determine an analyte concentration of an anticoagulated plasma by calculation based on results of measurements performed on a mixture of a blood performing sample and a liquid reagent, at least two different measurements on a mixture of a blood sample corresponding to said anticoagulated plasma and of liquid reagent, comprising the steps of
 - a) mixing a volume of said blood sample corresponding to said anticoagulated plasma with a five-fold, or more, volume of said liquid reagent,
 - b) performing said ~~at least two measurements on said the obtained mixture, the result of~~ at least one of which correlates with the hematocrit of said blood sample and the result of at least one of which correlates with said analyte concentration, andcomputing the results from the measurements, ~~when while either providing for the precise correspondence of the volumes of the components which are mixed in step a) with are precise and accurate the volumes according to the test protocol or the known value of when the hematocrit of said blood sample in b) is known to~~ and thereby determineing said analyte concentration of said anticoagulated plasma.
2. (Currently Amended) The method according to claim 1, wherein,
 - a) the volume of blood in said mixture is within the range of 50% to 150% of ~~an intended the~~ volume of blood according to the test protocol,
 - b) the volume of reagent in said mixture is within the range of 70% to 120% of ~~an intended the~~ volume of reagent according to the test protocol, and
 - c) computing the results to determine the analyte concentration when the

hematocrit of the blood sample is known.

3. (Currently Amended) The method according to claim 1, wherein said ~~an intended~~ volume of blood in a) according to the test protocol is in the range of 5 to 40 μL and said ~~intended-volume~~ of reagent according to the test protocol is in the range of 100 to 1000 μL .
4. (Currently Amended) The method according to claim 1, wherein said volume of blood in a) is in the range of 5 to 20 μL and said volume of reagent is in the range of 150 to 600 μL .
- 5-6. (Canceled).
7. (Currently Amended) The method according to claim 1, wherein said determination of analyte concentration method ~~method~~ is calibrated with anticoagulated plasma that has been subjected to an anticoagulation process by addition of an anticoagulant selected from the group consisting of sodium, potassium and lithium salts of citrate, isocitrate, EDTA, oxalate, heparin and hirudin.
8. (Original) The method according to claim 1, wherein said anticoagulated plasma is a fluid derived from blood, which is selected from the group consisting of blood derived fluids composed of serum, heparinized plasma, hirudinized plasma, oxalated plasma, citrated plasma, isocitrated plasma, EDTA-plasma and heat-treated plasma.

9. (Currently Amended) The method according to claim 1, wherein said determination of analyte concentration is calibrated with anticoagulated blood, with known analyte concentration in the corresponding anticoagulated plasma, that has been subjected to an anticoagulation process by addition of an anticoagulant selected from the group consisting of sodium, potassium and lithium salts of citrate, isocitrate, EDTA, oxalate, heparin and hirudin.

10. (Original) The method according to claim 1, wherein said analyte is selected from the group consisting of prothrombin time (PT), fibrinogen, fibrinogen degradation products, fibrin degradation products (D-dimer), activated partial prothrombin time (APTT), activated clotting time (ACT), C-reactive protein (CRP), cholesterol, and glucose.

11. (Currently Amended) The method according to claim 1, wherein said measurement the result of which that correlates with said hematocrit in b) is based on one or more measurements of light with wavelengths in the range of 800 nm to 1100 nm.

12. (Original) The method according to claim 1, wherein said two or more measurements in b) are performed at ambient temperature in the range of 18° C to 40°C.

13. (Original) The method according to claim 1, wherein said reagent in a) contains 0.1 g/L, or more, fibrinogen.

14. (Original) The method according to claim 1, wherein said analyte concentration is PT expressed in INR, wherein, prior to said determination of analyte concentration in anticoagulated plasma, the analyte concentration is re-expressed in PT%.

15. (Original) The method according to claim 1, wherein clotting time of said mixture in a) is one of the at least one measurement that correlates with said analyte concentration in b).

16. (Currently Amended) A ~~measurement and determination device for determining an analyte concentration of an anticoagulated plasma according to claim 1 performing measurements on blood, anticoagulated blood and/or anticoagulated plasma samples,~~ comprising

- a) a holder for receiving a container containing liquid reagent from a specific lot, which container receives on operation of the device ~~one of said blood samples~~ corresponding to said anticoagulated plasma for admixture with ~~said the~~ liquid reagent,
- b) an energy source,
- c) a data processor for computing the results from the measurements while either providing for the precise correspondence of the volumes of the components which are mixed in step a) of claim 1 with the volumes according to the test protocol or the known value of the hematocrit of the blood sample,
- d) a read-only memory comprising stored calibration data necessary to determine the analyte concentration in of the anticoagulated plasma a computing data set for one or more of said blood, anticoagulated blood and/or anticoagulated plasma sample admixtures, each computing data set being adapted to said specific lot of reagent;
- e) ~~measurement a means for performing two or more measurements on each the same mixture of blood and liquid reagent, the result of at least one of which admixture correlates with the hematocrit of, said blood sample and the result of at least one of which correlates with the analyte concentration,~~
- f) a display that shows ~~user instructions and computed results based on data~~

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——— from d) and e), and the results, and
g) a control means for user control of the device.

17. (Currently Amended) An equipment kit equipped with an identification mark comprising a ~~measurement and determination device for performing measurements on blood, anticoagulated blood and/or anticoagulated plasma samples, according to claim 16, having an~~ identification mark that is related to the identification mark of the equipment kit and one or several liquid reagent(s) in container(s) equipped each with an identification mark related to ~~said the~~ the identification mark of said the equipment kit, wherein the device comprises a read-only memory containing calibration data for the determination of an analyte,-- concentration in an anticoagulated plasma using the reagents which are a part of the same equipment kit as the device.